

GIORGIO GRAESAN AND FRIENDS	Safety Datasheet	Code	SDSSOLE	
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SECTION 1. Identification of the substance or mixture and of the company/enterprise

1.1. Product identifier

Code: ZA-ZB-ZC-ZD-ZE-ZF-ZG
Description: I COLORI DEL SOLE

1.2. Relevant identified uses of the substance or mixture and uses not recommended

Relevant uses: **Solution dye. For professional use only**
Uses advised against: any use not specified in this section or in section 7.3

1.3. Safety datasheet supplier information

Company Name: GIORGIO GRAESAN AND FRIENDS s.a.s.
Address: Via BERGAMO 24
20037 PADERNO DUGNANO
ITALY
Tel. 02/9903951
Fax. 02/99039590

the e-mail address of the competent person responsible for the safety datasheet is tecnico@giorgiograesan.it

1.4. Emergency telephone number

Phone number: 02/99039541 from Monday to Friday 8.30-12.30/14.00-18.00

SECTION 2. Hazard identification.

2.1. Classification of the substance or mixture.

The product is not classified as hazardous according to the provisions of Regulation (EC) 1272/2008 (CLP).

2.2. Label elements according to Regulation no. 1272/2008.

Hazard labelling in accordance with Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adjustments.

Warning: --

Hazard pictogram:--

Hazard indications:

EUH210 Safety datasheet available on request.
EUH208 Contains: 5-chloro-2-methyl-2H-isothiazol-3-one; 2-methyl-2H-isothiazol-3-one
May cause an allergic reaction.

Precautionary statements: --

Safety datasheet available at: www.giorgiograesan.it

2.3. Other hazards.

The product does not meet the PTB/vPvB criteria

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SECTION 3. Composition/information on ingredients.

3.1 Substances

Not applicable

3.2 Mixtures

Chemical description: mixture of colouring pastes

Components

Identification	Chemical name	Classification (EC REGULATION NO. 1272/2008)	Conc. [%]
CAS no: 55965-84-9 CE: 220-239-6 Index: 613-167-00-5 Reach:	5-chloro-2-methyl-2H-isothiazol-3-one; 2-methyl-2H-isothiazol-3-one (3:1)	Acute Tox. 2 H330, Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1	0 ≤ x < 0.0015

The full text of the hazard statements (H) is given in section 16 of the datasheet.

SECTION 4. First aid measures.

4.1 Description of first aid measures:

If a person feels unwell, seek medical advice and show this safety datasheet to the physician in attendance.

For inhalation:

In case of symptoms, move the person into fresh air.

For skin contact:

In case of contact, wash off with plenty of water and neutral soap. In case of skin alterations (burns, reddening, rash, blisters, ...) seek medical advice and show this datasheet to the physician in attendance.

For eye contact:

Flush eyes until the product is eliminated. In case of eye irritation, seek medical advice and show the product datasheet to the physician in attendance.

For ingestion/aspiration:

If swallowed, it is recommended to seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed:

There is no known specific information regarding the symptoms and effects caused by the product.

4.3. Indication of any need for immediate medical attention and special treatments.

Not applicable

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SECTION 5. Fire-fighting measures.

5.1. Extinguishing media.

Product not flammable, low risk of fire due to the flammability characteristics of the product in normal conditions of storage, handling and use. In case of combustion following handling, storage and improper use, any type of extinguishing agent can be used
 SUITABLE EXTINGUISHING MEDIA: carbon dioxide, foam, powder and water spray.
 UNSUITABLE EXTINGUISHING MEDIA: none in particular.

5.2. Special hazards arising from the substance or mixture.

Due to its flammability characteristics, the product does not present a risk of fire in normal conditions of storage, handling and use.

5.3. Recommendations for fire extinguishers.

GENERAL INFORMATION

Cool containers with water jets to prevent decomposition of the product and the development of substances that are potentially hazardous to health. Always wear full fire protection equipment. Collect the extinguishing water that must not be discharged into the sewers. Dispose of contaminated water used for extinguishing and fire residue according to current regulations.

EQUIPMENT

Normal fire-fighting clothing, such as an open-circuit compressed air breathing apparatus (EN 137), flame retardant overalls (EN469), flame retardant gloves (EN 659) and fire boots (HO A29 or A30).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and procedures in case of emergency.

Isolate any leaks or spills provided they do not entail an additional risk for those performing this operation.

6.2. Environmental precautions.

Product not classified as hazardous to the environment. Keep away from drains, surface waters and groundwater

6.3. Methods and materials for containment and cleansing.

Contain with earth or non-sparking inert and non-flammable material. Collect most of the material with recovery containers and proceed with disposal.

6.4. Reference to other sections.

Any information regarding personal protection and disposal is set out in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Precautions for safe handling

- Comply with the existing legislation on the prevention of risks at work. Keep the containers hermetically sealed.
- Control spills and residue, destroying them using safe methods (section 6). Avoid leakages from the containers.
- Maintain order and cleanliness where dangerous products are handled.

Technical recommendations for the prevention of fires and explosions.

It is recommended to transfer at a slow speed to avoid the creation of electrostatic charges that could affect flammable products. Consult section 10 for conditions and materials that should be avoided.

Technical recommendations to prevent ergonomic and toxicological risks.

Do not eat or drink during handling and wash oneself carefully afterwards with suitable cleaning products.

Technical recommendations to prevent environmental risks

It is not necessary to take special measures to prevent environmental risks.
 For more information see section 6.2

7.2. Conditions for safe storage, including any incompatibilities.

Keep the product in clearly labelled containers. Store containers away from any incompatible materials, checking section 10. Keep containers tightly closed, in suitable environments at +5°C to +30°C.
 Avoid sources of heat, radiation, static electricity and contact with food.

7.3. Particular end uses.

Not available

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SECTION 8. Exposure control/personal protection.

8.1. Control parameters.

There are no occupational exposure limits for the substances constituting the mixture.

DNEL (Workers):

Not applicable

DNEL (General population):

Not applicable

PNEC:

Not applicable

8.2. Exposure controls

Respiratory protection



General security and hygiene measures in the workplace

As a preventive measure it is recommended to use basic Personal Protective Equipment with the corresponding "CE marking". For more information on Personal Protective Equipment (storage, use, protection class, etc.) consult the information leaflet provided by the manufacturer of the PPE. The information in this section refers to the pure product. The protection measures for the diluted product may vary depending on the level of dilution, use, method of application, etc. To determine the obligation for the installation of emergency showers and/or eyewash stations in warehouses, legislation concerning storage of the chemical products applicable to each case shall be considered. For more information see sections 7.1 and 7.2.

Respiratory protection.

The use of protective equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

Specific hands protection



Pictogram	PPE	Marked	ECN standards	Remarks
 Mandatory hand protection	Protective gloves against minor risks			Replace gloves at first sign of deterioration. For periods of prolonged exposure to the product by professional/industrial users, the use of CE III gloves is recommended in accordance with EN 420 and EN 374.

As the product is a mixture of several substances, the resistance of the glove material cannot be predicted in advance with total reliability and therefore must be checked prior to application.

Specific eyes protection

Pictogram	PPE	Marked	ECN standards	Remarks
 Mandatory face protection	Full-vision safety goggles to protect against splashes and/or projections		EN 166:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according to the manufacturer's instructions. Use is recommended if there is a risk of splashing.

Specific body protection

Pictogram	PPE	Marked	ECN standards	Remarks
	Work clothing			Replace at the first sign of deterioration. For periods of prolonged exposure by professional / industrial users, CE III is recommended, according to EN ISO 6529: 2001, EN ISO 6530: 2005, EN ISO 13688: 2013, EN 464: 1994
	Non-slip work shoes		EN ISO 20347:2012	Replace at the first sign of deterioration. For periods of prolonged exposure by professional / industrial users, CE III is recommended, according to EN ISO 20345 and EN 13832-1

Additional measures

It is not necessary to take additional emergency measures.

Environmental exposure controls.

Emissions from production processes, including those from ventilation equipment, should be controlled to ensure compliance with the environmental protection legislation. It is advisable to avoid releasing the product and its containers into the environment.

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SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

<i>Appearance:</i>	liquid
<i>Odour:</i>	characteristic
<i>Odour threshold:</i>	not applicable
<i>pH:</i>	7-8
<i>Freezing point:</i>	< 0 °C
<i>Boiling point:</i>	> 100 °C
<i>Flash point:</i>	non-flammable
<i>Evaporation rate:</i>	not applicable
<i>Flammability:</i>	non-flammable
<i>Explosive properties:</i>	none
<i>Vapour pressure:</i>	not applicable
<i>Vapour density:</i>	not applicable
<i>Relative density:</i>	1.00 – 1.60 ± 0.01 kg/l
<i>Solubility:</i>	dilutable with water
<i>Partition coefficient n-octanol/water:</i>	not determined
<i>Autoignition temperature:</i>	non-flammable (water-based)
<i>Decomposition temperature:</i>	not determined
<i>Viscosity:</i>	not determined
<i>Explosive properties:</i>	none
<i>Oxidising properties:</i>	none
<i>Viscosity:</i>	2000 – 8000 cps
<i>VOC:</i>	< 10 mg/litre
<i>Dry residue:</i>	10% - 30%

9.2. Other information.

Information not available

SECTION 10. Stability and reactivity.

10.1. Reactivity.

No hazardous reaction if the following chemical storage technical instructions are respected, see section 7.

10.2. Chemical stability.

The product is stable under normal handling, use and storage conditions.

10.3. Possibility of dangerous reactions.

No dangerous reaction expected due to temperature and/or pressure variation.

10.4. Conditions to avoid.

Minimise exposure to air and moisture to avoid degradation.

Shocks and friction	Contact with air	Heating	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5. Incompatible materials.

Shocks and friction	Contact with air	Heating	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.6. Hazardous decomposition products.

Information not available.

SECTION 11. Toxicological information.

11.1 Information on toxicological effects:

LD50 oral > 2000 mg/kg (Rat)

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Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result depending on the means of exposure:

Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met
- Corrosivity/Irritability: Based on available data, the classification criteria are not met

Inhalation (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met
- Corrosivity/Irritability: Based on available data, the classification criteria are not met

Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met
- Contact with the eyes: Based on available data, the classification criteria are not met

Germ cell mutagenicity, carcinogenicity, toxicity to reproduction:

- Carcinogenicity: Based on available data, the classification criteria are not met
IARC: Not applicable
- Mutagenicity: Based on available data, the classification criteria are not met
- Toxicity to reproduction: Based on available data, the classification criteria are not met

Respiratory or cutaneous sensitisation:

- Respiratory: Based on available data, the classification criteria are not met
- Cutaneous: Based on available data, the classification criteria are not met

Specific target organ toxicity (STOT) — single exposure:

Based on available data, the classification criteria are not met

Specific target organ toxicity (STOT) - repeated exposure:

- Specific target organ toxicity (STOT) - repeated exposure: Based on available data, the classification criteria are not met
- Skin: Based on available data, the classification criteria are not met

Aspiration hazard:

Based on available data, the classification criteria are not met

Other information:

Not applicable

Specific toxicological information of substances:

Identification	Acute toxicity		Genre
5-chloro-2-methyl-2H-isothiazol-3-one; 2-methyl-2H-isothiazol-3-one (3:1)	LD50 oral	550 mg/kg	
	LD50 dermal	Not applicable	
	LC50 inhalation	Not applicable	

Acute toxicity estimate (ATE mix):

Identification	Acute toxicity		Genre
5-chloro-2-methyl-2H-isothiazol-3-one; 2-methyl-2H-isothiazol-3-one (3:1)	LD50 oral	550 mg/kg	
	LD50 dermal	Not applicable	
	LC50 inhalation	Not applicable	

SECTION 12. Ecological information.

Since no specific data is available on the preparation, it must be used according to good working practices without releasing the product to the environment. Do not release the product into the soil or waterways. Notify the competent authorities if the product reaches waterways or contaminates soil or vegetation. Take measures to minimise the effects on the groundwater.

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12.1 Toxicity

Identification	Acute toxicity		Species	Genre
5-chloro-2-methyl-2H-isothiazol-3-one; 2-methyl-2H-isothiazol-3-one (3:1)	CL50	0.58 mg/l (96 h)	Gambusia affinis	Fish
	EC50	1.02 mg/l (48h)	Daphnia magna	Crustaceans
	EC50	0.188 mg/l (72h)		Algae

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Not available

12.4 Mobility in soil:

Not available

12.5 Results of PBT and vPvB assessment:

The product does not meet the PBT/vPvB criteria

12.6 Other adverse effects:

Not described

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Waste generation should be avoided or minimised where possible. Disposal of this product, solutions and any by-products must always be carried out in accordance with the environmental protection and waste disposal law and respecting the requirements of each relevant local authority. Disposal must be entrusted to a company authorised to manage waste, in compliance with national and possibly local legislation. Absolutely avoid dispersing the product in the soil, sewers or waterways.

Contaminated packaging must be sent for recovery or disposal in accordance with the national waste management rules. Care should be taken when handling empty containers that have not been cleaned or rinsed.

SECTION 14. Transport information.

The product should not be considered dangerous under the provisions in force concerning the transportation of dangerous goods by road (A.D.R.), rail (RID), sea (IMDG Code) and air (IATA).

14.1 UN Number

Unregulated

14.2 UN proper shipping name

Unregulated

14.3 Transport hazard classes

Unregulated

14.4 Packing group

Unregulated

14.5 Environmental hazards

Unregulated

14.6 Special precautions for users

Unregulated

14.7 Carriage of bulk according to Annex II of MARPOL 73/78 and IBC code

Unregulated

SECTION 15. Regulatory information.

15.1 Specific health, safety and environmental laws and regulations for the substance or mixture:

Regulation (EC) No. 528/2012: contains a preservative to protect the original properties of the treated product. Contains: 5-chloro-2-methyl-2H-isothiazol-3-one; 2-methyl-2H-isothiazol-3-one (3:1).

Substances included in Annex XIV of REACH (authorisation list) and sunset date: Not applicable

Regulation (EC) 1005/2009 about substances that deplete the ozone layer: Not applicable

Article 95 REGULATION (EU) No. 528/2012: Not applicable

REGULATION (EU) No. 649/2012, in relation to the import and export of hazardous chemical products: Not applicable

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Candidate substances for authorisation pursuant to Regulation (EC) No. 1907/2006 (REACH): Not applicable
Substances included in Annex XIV of REACH (authorisation list) and sunset date: Not applicable
Regulation (EC) 1005/2009 about substances that deplete the ozone layer: Not applicable
Article 95 REGULATION (EU) No. 528/2012: Not applicable
REGULATION (EU) No. 649/2012, in relation to the import and export of hazardous chemical products: Not applicable

15.2. Chemical safety assessment.

No chemical safety assessment has been prepared for the mixture or for the substances contained therein.

SECTION 16. Other information.

This safety datasheet has been drawn up in accordance with Annex II-Guide for the development of Safety Datasheets of Regulation (EC) No. 1907/2006 (Regulation (EU) No. 2015/830).

Texts of the legislative phrases mentioned in section 2-3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components that appear in section 2-3

Regulation No. 1272/2008 (CLP):

Not applicable

Classification procedure:

Not applicable

Training tips:

Minimum occupational risk prevention training is recommended for personnel handling this product in order to facilitate the understanding and interpretation of this safety datasheet as well as for product labelling.

Main sources of literature:

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Key

- ADR: European agreement on the transport of dangerous goods by road
- CAS NUMBER: Chemical Abstract Service Number
- EC50: Concentration expected to produce a certain effect in 50% of the tested population
- EC NUMBER: Identification number in ESIS (European chemical substances information system)
- CLP: Regulation EC 1272/2008
- DNEL: Derived no effect level
- EmS: Emergency Schedule
- GHS: Globally harmonised system of classification and labelling of chemicals
- IATA DGR: Regulations for the transport of dangerous goods of the International Air Transport Association
- IC50: Concentration at which 50% of the tested population is inhibited
- IMDG: International Maritime Dangerous Goods Code
- IMO: International Maritime Organisation
- INDEX NUMBER: Identification number in Annex VI of CLP
- LC50: Lethal concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational exposure limit
- PBT: Persistent, bioaccumulative and toxic according to REACH
- PEC: Predicted environmental concentration
- PEL: Permissible exposure limit
- PNEC: Predicted no effect concentration
- REACH: Regulation EC 1907/2006
- RID: Regulations for the international carriage of dangerous goods by train
- TLV: Threshold limit value
- TLV CEILING: Concentration that must not be exceeded at any time during working exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time weighted average exposure limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulative according to REACH
- WGK: Water hazard class (Germany).

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1. Directive 1999/45/EC and subsequent amendments
2. Directive 67/548/EEC and subsequent amendments
3. Regulation (EC) 1907/2006 of the European Parliament (REACH)
4. Regulation (EC) 1272/2008 of the European Parliament (CLP)
5. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
6. Regulation (EC) 453/2010 of the European Parliament
7. Regulation (EC) 286/2011 of the European Parliament (II Atp. CLP)
8. Regulation (EC) 618/2012 of the European Parliament (III Atp. CLP)
9. The Merck Index. Ed. 10
10. Handling Chemical Safety
11. Niosh - Registry of Toxic Effects of Chemical Substances
12. INRS - Fiche Toxicologique
13. Patty - Industrial Hygiene and Toxicology
14. N.I. Sax - Dangerous properties of Industrial Materials-7 Ed., 1989
15. ECHA Agency Website

Note to the user:

The information contained in this sheet is based on the knowledge available to us at the date of the latest version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product.

This document must not be construed as warranting any specific property of the product.

As use of the product does not fall under our direct control, it is the user's responsibility to comply with the laws and regulations in force regarding hygiene and safety. No responsibility is assumed for improper use.

Provide adequate training to personnel involved in the use of chemicals.